

## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

## WAVEGUIDE COMPRISING SCATTERED LIGHT DETECTABLE PARTICLES

and for which a patent application:

- is attached hereto and includes amendment(s) filed on (if applicable)  
 was filed in the United States on December 31, 2003 as Application No. 10/749,348 (for declaration on accompanying application)  
 with amendment(s) filed on (if applicable)  
 was filed as PCT international Application No. on and was amended under PCT Article 19 on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION				
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED	
			YES <input type="checkbox"/>	NO <input type="checkbox"/>
			YES <input type="checkbox"/>	NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

NON-PROVISIONAL APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED

\* for use only when the application is assigned to a company, partnership or other organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME Warden	FIRST NAME Laurence	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Poway	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 12913 Camino Del Valle	CITY Poway	STATE OR COUNTRY California	ZIP CODE 92064
SIGNATURE OF INVENTOR 201			DATE 8/23/04		
2 0 2	FULL NAME OF INVENTOR	LAST NAME Bushway	FIRST NAME Paul	MIDDLE NAME J.	
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 1043 Hornblend Street	CITY San Diego	STATE OR COUNTRY California	ZIP CODE 92057
SIGNATURE OF INVENTOR 202			DATE		
2 0 3	FULL NAME OF INVENTOR	LAST NAME Peterson	FIRST NAME Todd	MIDDLE NAME C.	
	RESIDENCE & CITIZENSHIP	CITY Coronado	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 32 Catspaw Cape	CITY Coronado	STATE OR COUNTRY California	ZIP CODE 92118
SIGNATURE OF INVENTOR 203			DATE		
2 0 4	FULL NAME OF INVENTOR	LAST NAME Rolfson	FIRST NAME Kris	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 8972 La Cintura Ct.	CITY San Diego	STATE OR COUNTRY California	ZIP CODE 92129
SIGNATURE OF INVENTOR 204			DATE		
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
SIGNATURE OF INVENTOR 205			DATE		

OCT-28-04 09:15

FROM-

T-779 P.008/019 F-050



## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

**WAVEGUIDE COMPRISING SCATTERED LIGHT DETECTABLE PARTICLES**

and for which a patent application:

- is attached hereto and includes amendment(s) filed on (if applicable)  
 was filed in the United States on December 31, 2003 as Application No. 10/749,348 (for declaration not accompanying application)  
 with amendment(s) filed on (if applicable)  
 was filed as PCT international Application No. on and was amended under PCT Article 19 on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

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APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES <input type="checkbox"/> NO <input type="checkbox"/>
			YES <input type="checkbox"/> NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME Warden	FIRST NAME Laurence	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Poway	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 12913 Camino Del Valle	CITY Poway	STATE OR COUNTRY California	ZIP CODE 92064
	SIGNATURE OF INVENTOR 201			DATE	
2 0 2	FULL NAME OF INVENTOR	LAST NAME Bushway	FIRST NAME Paul	MIDDLE NAME J.	
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 1043 Hornblend Street	CITY San Diego	STATE OR COUNTRY California	ZIP CODE 92057 92109
	SIGNATURE OF INVENTOR 202			DATE 10/28/2004	
2 0 3	FULL NAME OF INVENTOR	LAST NAME Peterson	FIRST NAME Todd	MIDDLE NAME C.	
	RESIDENCE & CITIZENSHIP	CITY Coronado	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 32 Catspaw Cape	CITY Coronado	STATE OR COUNTRY California	ZIP CODE 92118
	SIGNATURE OF INVENTOR 203			DATE	
2 0 4	FULL NAME OF INVENTOR	LAST NAME Rolfson	FIRST NAME Kris	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States	
	POST OFFICE ADDRESS	STREET 8972 La Cintura CL	CITY San Diego	STATE OR COUNTRY California	ZIP CODE 92129
	SIGNATURE OF INVENTOR 204			DATE	
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 205			DATE	

OCT-28-04 08:17

FROM:

T-779 P.012/018 F-050  
JONES DAY DOCKET NO. 11032-041-999

## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

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- is attached hereto and includes amendment(s) filed on (if applicable)
- was filed in the United States on December 31, 2003 as Application No. 10/749,348 (for a divisional or accompanying application)  
with amendment(s) filed on (if applicable)
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EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION			
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES <input type="checkbox"/> NO <input type="checkbox"/>
			YES <input type="checkbox"/> NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

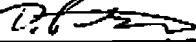
PROVISIONAL APPLICATION NUMBER	FILING DATE

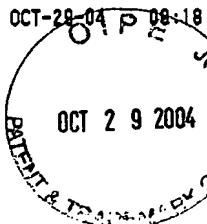
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2 0 1	FULL NAME OF INVENTOR	LAST NAME Warden	FIRST NAME Laurence	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Poway	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 12913 Camino Del Valle	CITY Poway	STATE OR COUNTRY California
	SIGNATURE OF INVENTOR 201			DATE
2 0 2	FULL NAME OF INVENTOR	LAST NAME Bushway	FIRST NAME Paul	MIDDLE NAME J.
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 1043 Hornblend Street	CITY San Diego	STATE OR COUNTRY California
	SIGNATURE OF INVENTOR 202			DATE
2 0 3	FULL NAME OF INVENTOR	LAST NAME Peterson	FIRST NAME Todd	MIDDLE NAME C.
	RESIDENCE & CITIZENSHIP	CITY Coronado	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 32 Catspaw Cape	CITY Coronado	STATE OR COUNTRY California
	SIGNATURE OF INVENTOR 203 			DATE 7/26/09
2 0 4	FULL NAME OF INVENTOR	LAST NAME Rolfson	FIRST NAME Kris	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 8972 La Cintura Ct.	CITY San Diego	STATE OR COUNTRY California
	SIGNATURE OF INVENTOR 204			DATE
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY
	SIGNATURE OF INVENTOR 205			DATE



FROM-

T-779 P.016/019 F-050  
JONES DAY DOCKET NO. 11032-041-999

## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

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EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION				
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED	
			YES <input type="checkbox"/>	NO <input type="checkbox"/>
			YES <input type="checkbox"/>	NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(c) of any United States provisional application(s) listed below.

PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

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2 0 1	FULL NAME OF INVENTOR	LAST NAME Warden	FIRST NAME Laurence	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Poway	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 12913 Camino Del Valle	CITY Poway	STATE OR COUNTRY California
SIGNATURE OF INVENTOR 201			DATE	
2 0 2	FULL NAME OF INVENTOR	LAST NAME Bushway	FIRST NAME Paul	MIDDLE NAME J.
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 1043 Hornblend Street	CITY San Diego	STATE OR COUNTRY California
SIGNATURE OF INVENTOR 202			DATE	
2 0 3	FULL NAME OF INVENTOR	LAST NAME Peterson	FIRST NAME Todd	MIDDLE NAME C.
	RESIDENCE & CITIZENSHIP	CITY Coronado	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 32 Catspaw Cape	CITY Coronado	STATE OR COUNTRY California
SIGNATURE OF INVENTOR 203			DATE	
2 0 4	FULL NAME OF INVENTOR	LAST NAME Rolfson	FIRST NAME Kris	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	STREET 8972 La Cintura Ct.	CITY San Diego	STATE OR COUNTRY California
SIGNATURE OF INVENTOR 204			DATE <i>15 M</i> 8/24/04	
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY
SIGNATURE OF INVENTOR 205			DATE	

JOINT

## ASSIGNMENT

WHEREAS, WE, Laurence Warden, Paul J. Bushway, Todd C. Peterson, and Kris Rolfsen, ASSIGNORS, citizens of the United States, residing respectively at 12913 Camino del Valle, Poway, California; 92064; 1043 Hornblend Street, San Diego, California, 92057; 32 Catspaw Cape, Coronado, California 92118; and 8972 La Cintura Ct., San Diego, California 92129, are the inventors of the invention in

## WAVEGUIDE COMPRISING SCATTERED LIGHT DETECTABLE PARTICLES

for which we have executed an application for a Patent of the United States

- which is executed on  even date herewith or   
 which is identified by Jones Day docket no. 11032-041-999  
 which was filed on December 31, 2003, Application No. 10/749,348

and WHEREAS, Invitrogen Corporation, a corporation organized and existing under the laws of the State of California having its principal office at 1600 Faraday Avenue, Carlsbad, California 92008, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 8/23/04 2004



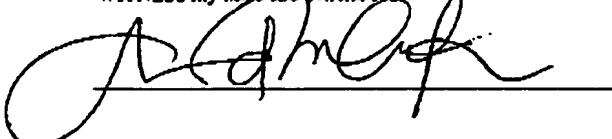
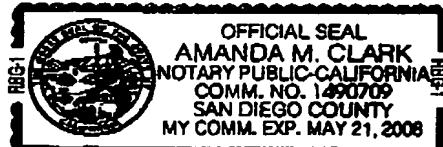
L.S.

State of California,

County of San Diego; ss.

On Aug. 23rd 2004, before me, amanda clark Notary Public, personally appeared Laurence Warden, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

**WITNESS my hand and official seal**

Date \_\_\_\_\_, 2004 U.S.  
Todd C. Peterson  
State of \_\_\_\_\_ )  
                  ) SS.:  
County of \_\_\_\_\_ )

WITNESS my hand and official seal

WITNESS my hand and official seal

## JOINT

## **ASSIGNMENT**

WHEREAS, WE, Laurence Warden, Paul J. Bushway, Todd C. Peterson, and Kris Rolfsen, ASSIGNORS, citizens of the United States, residing respectively at 12913 Camino del Valle, Poway, California, 92064; 1043 Hornblend Street, San Diego, California, 92057; 32 Catspaw Cape, Coronado, California 92118; and 8972 La Cintura Ct., San Diego, California 92129, are the inventors of the invention in

## WAVEGUIDE COMPRISING SCATTERED LIGHT DETECTABLE PARTICLES

for which we have executed an application for a Patent of the United States

- which is executed on  even date herewith or   
 which is identified by Jones Day docket no. 11032-041-999  
 which was filed on December 31, 2003, Application No. 10/749,348

and WHEREAS, Invitrogen Corporation, a corporation organized and existing under the laws of the State of California having its principal office at 1600 Faraday Avenue, Carlsbad, California 92008, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, we hereunto set our hands and seals the day and year set opposite our respective signatures.

Page 2004 L.S.

WITNESS my hand and official seal

State of CALIFORNIA )  
 ) SS.:  
County of SAN DIEGO )

On OCTOBER 28, 2004, before me, SENAD CETIC, Notary Public, personally appeared Paul J. Bushway, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date \_\_\_\_\_, 2004

---

Todd C. Peterson

L.S.

On 12/15/2004, before me, Todd C. Peterson, Notary Public, personally appeared Todd C. Peterson, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date \_\_\_\_\_, 2004

**Kris Rølfsom**

—LS

On 10, 2004, before me, Kris Rofman, Notary Public, personally appeared Kris Rofman, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

JOINT

## ASSIGNMENT

WHEREAS, WE, Laurence Warden, Paul J. Bushway, Todd C. Peterson, and Kris Rolfsen, ASSIGNORS, citizens of the United States, residing respectively at 12913 Camino del Valle, Poway, California, 92064; 1043 Hornblend Street, San Diego, California, 92037; 32 Catspaw Cape, Coronado, California 92118; and 8972 La Cintura Ct., San Diego, California 92129, are the inventors of the invention in

## WAVEGUIDE COMPRISING SCATTERED LIGHT DETECTABLE PARTICLES

for which we have executed an application for a Patent of the United States

- which is executed on  even date herewith or   
 which is identified by Jones Day docket no. 11032-041-999  
 which was filed on December 31, 2003, Application No. 10/749,348

and WHEREAS, Invitrogen Corporation, a corporation organized and existing under the laws of the State of California having its principal office at 1600 Faraday Avenue, Carlsbad, California 92008, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date \_\_\_\_\_, 2004 L.S.

Laurence Warden

State of \_\_\_\_\_  
 \_\_\_\_\_, )  
 \_\_\_\_\_, )  
 County of \_\_\_\_\_, )

On \_\_\_\_\_, 2004, before me, \_\_\_\_\_, Notary Public, personally appeared Laurence Warden, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

On 12, 2004, before me, Paul J. Bushway, Notary Public, personally appeared Paul J. Bushway, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date 7/26/09 2004 Todd C. Peterson I.S.

State of California )  
County of San Diego )  
SS.: )

On July 26<sup>th</sup> 2004 before me, May L. Harris Notary Public, personally appeared Todd C. Peterson, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

May C. Harris



State of } SS.:  
County of }

On 2004, before me, Notary Public, personally appeared Kris Rolston, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

## JOINT

## ASSIGNMENT

WHEREAS, WE, Laurence Warden, Paul J. Bushway, Todd C. Peterson, and Kris Rolfsen, ASSIGNORS, citizens of the United States, residing respectively at 12913 Carnino del Valle, Poway, California, 92064; 1043 Hornblend Street, San Diego, California, 92057; 32 Catspaw Cape, Coronado, California 92118; and 8972 La Cintura Ct., San Diego, California 92129, are the inventors of the invention in

## WAVEGUIDE COMPRISING SCATTERED LIGHT DETECTABLE PARTICLES

for which we have executed an application for a Patent of the United States

- which is executed on  even date herewith or   
 which is identified by Jones Day docket no. 11032-041-999  
 which was filed on December 31, 2003, Application No. 10/749

and WHEREAS, Invitrogen Corporation, a corporation organized and existing under the laws of the State of California having its principal office at 1600 Faraday Avenue, Carlsbad, California 92008, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, we hereunto set our hands and seals the day and year set opposite our respective signatures.

On 2004, before me, Notary Public, personally appeared Laurence Warden, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date 8/24/04, 2004 L.S.  
State of NH)  
County of Manchester)  
) SS.: )

On 8/24/04, before me, Paul J. Bushway, Notary Public, personally appeared Paul J. Bushway, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date 8/24/04, 2004 L.S.  
State of NH)  
County of Manchester)  
) SS.: )

On 8/24/04, before me, Todd C. Peterson, Notary Public, personally appeared Todd C. Peterson, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

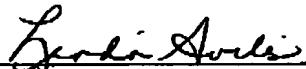
Date 8/24/04, 2004 L.S.  
State of New Hampshire)  
County of Hillsborough)  
) SS.: )



Kris Rolfsen

On August 24, 2004, before me, Linda Aviles, Notary Public, personally appeared Linda Aviles, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal



**MY Commission Expires 3/5/08**

